

**SINGLE WIRE RETURN DEVICE IN A
FIBER TO THE HOME SYSTEM**

ABSTRACT OF THE DISCLOSURE

5 Systems and methods are disclosed for providing reverse signals from a plurality
of DHCTs to a downstream modulator that is located in the headend facility. The present
invention includes a single wire return device (SWRD) that receives RF modulated
signals, dynamically determines the address of the associated modulator, and converts the
signals into Ethernet signals. The Ethernet signals are subsequently provided to the
10 headend facility via fiber cable.